

Title (en)

METHOD AND DEVICE FOR RECORDING A THREE-DIMENSIONAL DISTANCE-MEASURING IMAGE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUFNAHME EINES DREIDIMENSIONALEN ABSTANDSBILDES

Title (fr)

PROCEDE ET DISPOSITIF POUR ACQUERIR UNE IMAGE TELEMETRIQUE TRIDIMENSIONNELLE

Publication

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Application

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Abstract (en)

[origin: WO03016944A2] The invention relates to methods and devices for recording three-dimensional distance-measuring images of an object surface by measuring light propagation time using a short-term integrated photodetector. For starting a light-induced pulse (1) on the transmission side, a trigger signal is produced that is at the same time used on the receiving side for opening at least one integration window (2, 21, 22) for receiving back-scattered light-induced pulses (3) with a predetermined time delay ( DELTA TV). A predetermined event such as a maximum or a zero crossing is detected which, by its interval relative to the integration windows, determines a trigger delay. Said trigger delay is correlated with the light propagation time and allows calculation of the object point distance d.

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**G01S 17/89**; **G01S 7/487**

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 03016944A2

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